

consisting of a sulfated polysaccharide, a glycosaminoglycan, an O-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, an N-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, and combinations thereof, wherein the at least one sugar chain is covalently bonded through a peptide to which the sugar chain is added, thereby increasing the residual activity of the heparin-binding protein by adding the at least one covalently bonded sugar chain.

17. (Amended) The heparin binding protein of claim 16, wherein the heparin-binding protein comprising the covalently bonded sugar chain comprises:

(a) a protein consisting of the amino acid sequence of SEQ ID NO: 1, 3, 5, 17, 19, 21, 23, 25, 27 or 29; or

(b) a protein which consists of the amino acid sequence of SEQ ID NO: 1, 3, 5, 17, 19, 21, 23, 25, 27 or 29 having a deletion, substitution, addition or modification of at least one amino acid, wherein the heparin-binding protein has FGF activity and the sugar chain is added thereto.

18. (Twice Amended) A heparin-binding protein which comprises a heparin-binding protein functionalized by covalently bonding thereto at least one sugar chain, wherein the at least one sugar chain is covalently bonded through a peptide to which the sugar chain is added thereby increasing the residual activity of the heparin-binding protein, said at least one sugar chain selected from the group consisting of a sulfated polysaccharide, a glycosaminoglycan, an O-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, an N-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, and combinations thereof.

19. (Thrice Amended) A heparin-binding protein comprising a plurality of covalently bonded sugar chains, wherein the sugar chains are selected from the group consisting of a sulfated polysaccharide, a glycosaminoglycan, an O-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, an N-linked sugar chain combined with a sulfated polysaccharide or a glycosaminoglycan, and combinations thereof, wherein the sugar chains are covalently bonded through a peptide to which the sugar chains are added thereby increasing the residual activity of the heparin-binding protein.

20. (Twice Amended) A heparin-binding protein comprising a heparin-binding protein containing a peptide sequence to which at least one sugar chain is covalently bonded, wherein